

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. – 36. (Canceled)

37. (New) An appliance for providing air and gas to a gas burner having a back tube for receiving air and gas to be combusted, comprising:

an air tube comprising opposing first and second wall regions connected by longitudinal wall regions such that an inside space is enclosed by the first, second, and longitudinal wall regions; and

a gas tube comprising an aperture for providing gas inwards to the air tube,

wherein the air tube comprises a first aperture at the first wall region for receiving the back tube of the gas burner,

wherein the aperture of the gas tube is provided with a first part of a detachable connection device, for receiving a second part of the detachable connection device provided on the back tube for allowing gas from the gas tube to enter the back tube.

38. (New) The appliance as claimed in claim 37, wherein the aperture of the gas tube and the first aperture of the air tube are substantially aligned.

39. (New) The appliance as claimed in claim 37, wherein the detachable connection device is a quick connect coupling.

40. (New) The appliance as claimed in claim 39, wherein the first part of the quick connect coupling constitutes a male tubular organ for being received by a female sleeve from the second part of the quick connect coupling.

41. (New) The appliance as claimed in claim 40, wherein the male tubular organ has on its external peripheral surface at least one annular groove opened outward, the groove being adapted to receive an annular spring.

42. (New) The appliance as claimed in claim 39, wherein the first part of the quick connect coupling constitutes a female sleeve for receiving a male tubular organ from the second part of the quick connect coupling.

43. (New) The appliance as claimed in claim 42, wherein the female sleeve has in its internal peripheral surface at least one annular groove opened towards its interior, and wherein the groove is adapted to receive an annular spring.

44. (New) The appliance as claimed in claim 37, wherein the gas tube is located outside and adjacent to the air tube, wherein the air tube comprises a second aperture at the second wall region for communicating with the aperture of the gas tube, and wherein the first part of a detachable connection device extends to the inside space of the air tube.

45. (New) The appliance as claimed in claim 37, wherein the first part of the detachable connection device is provided with at least one sealing gasket for providing a gas-tight coupling between the first part and the second part of the detachable connection device.

46. (New) A gas burner for receiving air and gas to be combusted from an appliance, the appliance comprising an air tube and a gas tube comprising an aperture for providing gas inwards to the air tube, the gas burner comprising:

a radiant panel; and

a back tube for providing air and gas to the radiant panel,

wherein the back tube has an orifice for allowing air from the air tube to enter inside the back tube,

wherein the air tube comprises opposing first and second wall regions connected by longitudinal wall regions such that an inside space is enclosed by the first, second, and longitudinal wall regions, and a first aperture at the first wall region for receiving the back tube, and

wherein the back tube is provided with a second part of a detachable connection device for receiving a first part of the detachable connection device present at the aperture of the gas tube.

47. (New) The gas burner as claimed in claim 46, wherein the second part of the detachable connection device is adapted to pass through the first aperture of the air tube.

48. (New) The gas burner as claimed in claim 46, wherein the detachable connection device is a quick connect coupling.

49. (New) The gas burner as claimed in claim 48, wherein the second part of the quick connect coupling constitutes a male tubular organ for being received by a female sleeve of the first part of the quick connect coupling.

50. (New) The gas burner as claimed in claim 49, wherein the male tubular organ has on its external peripheral surface at least one annular groove opened towards its exterior, and wherein the groove is adapted to receive an annular spring.

51. (New) The gas burner as claimed in claim 48, wherein the back tube has at its back end a male tubular organ, wherein the male tubular organ comprises a piece of tube penetrating in the back of the back tube, and wherein the piece of tube constitutes an injector organ for injecting gas into the back tube.

52. (New) The gas burner as claimed in claim 51, wherein the orifice is provided at a level of the injector.

53. (New) The gas burner as claimed in claim 48, wherein the second part of the quick connect coupling constitutes a female sleeve for receiving a male tubular organ from the first part of the quick connect coupling.

54. (New) The gas burner as claimed in claim 53, wherein the female sleeve has in its internal peripheral surface at least one annular groove opened towards its interior, and wherein the groove is adapted to receive an annular spring.

55. (New) The gas burner as claimed in claim 46, wherein the second part of the detachable connection device is provided with at least one sealing gasket for providing a gas-tight coupling between the first and second parts of the detachable connection device.

56. (New) The gas burner as claimed in claim 46, wherein the gas burner is an infrared radiant element.

57. (New) A gas combustion device comprising:
at least one gas burner comprising a radiant panel, and a back tube for receiving air and gas to be combusted and for providing air and gas to the radiant panel; and
an appliance for providing air and gas to the gas burner, wherein the appliance comprises an air tube and a gas tube,
wherein the gas tube comprises an aperture for providing gas inwards to the air tube,
wherein the air tube comprises opposing first and second wall regions connected by longitudinal wall regions such that an inside space is enclosed by the first, second, and longitudinal wall regions, and a first aperture at the first wall region for receiving the back tube,
wherein the back tube has an orifice for allowing air from the air tube to enter inside the back tube, and
wherein the aperture of the gas tube is provided with a first part of a detachable connection device, for receiving a second part of the detachable connection device provided on the back tube for allowing gas from the gas tube to enter the back tube.

58. (New) The gas combustion device as claimed in claim 57, wherein the aperture of the gas tube and the first aperture of the air tube are substantially aligned.

59. (New) The gas combustion device as claimed in claim 57, wherein the detachable connection device is a quick connect coupling.

60. (New) The gas combustion device as claimed in claim 59, wherein one of parts of the quick connect coupling constitutes a male tubular organ, wherein the other of the parts of the quick connect coupling constitutes a female sleeve, and wherein the male tubular organ is adapted for being received by the female sleeve.

61. (New) The gas combustion device as claimed in claim 60, wherein the male tubular organ has on its external peripheral surface at least one annular groove opened towards the exterior, and wherein the groove is adapted to receive an annular spring.

62. (New) The gas combustion device as claimed in claim 60, wherein the female sleeve has in its internal peripheral surface at least one annular groove opened towards its interior, and wherein the groove is adapted to receive an annular spring.

63. (New) The gas combustion device as claimed in claim 62, wherein the male tubular organ has on its external peripheral surface at least one annular groove opened towards the exterior, and wherein the gas burner further comprises the annular spring being received in the annular grooves of the male tubular organ and the female sleeve.

64. (New) The gas combustion device as claimed in claim 59, wherein the second part of the quick connect coupling constitutes a male tubular organ.

65. (New) The gas combustion device as claimed in claim 59, wherein the back tube has at its back end a male tubular organ, wherein the male tubular organ comprises a piece of tube penetrating in the back of the back tube, and wherein the piece of tube constitutes an injector organ for injecting gas into the back tube.

66. (New) The gas combustion device as claimed in claim 65, wherein the orifice is provided at a level of the injector.

67. (New) The gas combustion device as claimed in claim 57, wherein the gas tube is located outside and adjacent to the air tube, wherein the air tube comprises a second aperture at the second wall region for communicating with the aperture of the gas tube, and wherein the first part of the detachable connection device extends to the inside space of the air tube.

68. (New) The gas combustion device as claimed in claim 57, wherein the first part and/or the second part of the detachable connection device is provided with at least one sealing gasket for providing a gas-tight coupling between the first and second parts of the detachable connection device.

69. (New) The gas combustion device as claimed in claim 57, wherein the second part of the detachable connection device is adapted to pass through the first aperture of the air tube.

70. (New) The gas combustion device as claimed in claim 57, wherein the gas burner is an infrared radiant element.